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EXAMINER

HO, CHUONG T

ART UNIT

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/566,739	<b>Applicant(s)</b> CHEN ET AL.	
	<b>Examiner</b> CHUONG T. HO	<b>Art Unit</b> 2419	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 07 January 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-8,10-16 and 20-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6,8,10-16,20-23,25 and 26 is/are rejected.
- 7) ☒ Claim(s) 7,24,27 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. The amendment filed 01/07/09 have been entered and made of record.
2. Applicant's arguments with respect to claims 1, 2, 4-8,10-16,20,21-27 have been considered but are moot in view of the new ground(s) of rejection.
3. Claims 1,2,4-8,10-16,20,21-27 are pending in the application (Claims 1, 2, 4-8, 10-15, and 20 have been amended. New claims 21-27 have been added).

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1 , 2, 4, 6, 8, 10-16, 21-23, 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (Pub. No.: US 2003/0009580 A1) in view of Nandagopalan et al. (Pub. No.: US 2003/0093526 A1).

Regarding to claim 1, Chen '580 disclose a method for providing reliable transmission Quality of Service (QoS) ([0035] QoS, allocation and performance in the bearer network) in a communication network, the method comprising:  
the local bearer network resource manager (figure 1, SLA-based Policy control in Service Domain A) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 20) transmitting QoS information of to the peer bearer network resource

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manager (figure 1, SLA-based Policy control in Service Domain B) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 26) through the QoS connection the bearer network resource managers (figure 1, SLA-based Policy controls), wherein the QoS information is provided to connection nodes (figure 1, End-Point A, End-Point B) connected to the local bearer network resource manager (figure 1, SLA-based Policy control in Service Domain A) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 20) and the peer bearer network resource manager (figure 1, SLA-based Policy control in Service Domain B) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 26) respectively for providing corresponding resource (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Chen '580 disclose all the subject matter of the invention above with the exception of a local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager;

the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection.

Nandagopalan '526, from the same or similar fields of endeavor, disclose a local bearer network resource manager (figure 6, Bandwidth Allocator (BA) 650) sending an establish connection request (page 11, claim 2, a connection request message) to a peer bearer network resource manager (figure 6, Bandwidth Allocator (BA) 655) for

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requesting to create a QoS connection (page 11, claim 2, a connection request message containing QoS parameters) between the local bearer network resource manager and the peer bearer network resource manager;  
the local bearer network resource manager receiving an establish connection response (page 11, claim 2, creating a connection response message... QoS in the response), from the peer bearer network resource manager so as to create the QoS connection.

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use a local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection taught by Nandagopalan '526 into the communication network (figure 1) of Chen '580.

A local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection can be implemented into the communication network (figure 1) of Chen '580 to create QoS connection. The motivation for using a local bearer network resource manager sending an establish connection request to a peer bearer

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network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection being that improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN) (Nandagopalan '526, [0012]).

Regarding to claim 2, Chen '580 disclose wherein the local bearer network resource manager and the peer bearer network resource manager are located in a bearer control layer of a multiservice network (figure 2, [0042]).

Regarding to claim 4, Chen '580 disclose all the limitations of claim 1 above.

However, Chen '580 are silent to disclosing the peer bearer network resource manager judging whether an identity of the local bearer network resource manager is valid, and if valid, sending the establish connection response to the local bearer network resource manager.

Nandagopalan '526, from same or similar fields of endeavor, teach the peer bearer network resource manager judging whether an identity of the local bearer network resource manager is valid, and if valid, sending the establish connection response to the local bearer network resource manager (page 11, claim 2, creating a connection response message... QoS in the response).

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Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to apply the peer bearer network resource manager judging whether an identity of the local bearer network resource manager is valid, and if valid, sending the establish connection response to the local bearer network resource manager taught by Nandagopalan '526 into the communication system of Chen '580, since Nandagopalan '526 recited the motivation in the paragraph [0012] which improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN).

Regarding to claim 6, Chen '508' disclose exchanging\_and negotiating QoS information ([0045] negotiating SLA between two end peer (service domains)) , which the communication network provides during data transmission,among the bearer network resource managers (figure 2, SLA based policy controls) through the said QoS connection.

However, Chen '508' are silent to disclosing the local\_bearer network resource manager periodically sending a handshake message to the peer bearer network resource manager, and determining a connection status according to a handshake response returned by the peer bearer network resource manager .

Nandagopalan '526 disclose the local\_bearer network resource manager periodically sending a handshake message to the peer bearer network resource manager, and determining a connection status according to a handshake response

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returned by the peer bearer network resource manager (page 11, claim 2, establish connection request...establish connection response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to apply the local\_bearer network resource manager periodically sending a handshake message to the peer bearer network resource manager, and determining a connection status according to a handshake response returned by the peer bearer network resource manager taught by Nandagopalan '526 into the communication system of Chen '580, since Nandagopalan '526 recited the motivation in the paragraph [0012] which improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN).

Regarding to claim 8, Chen '580 disclose all the limitations of claim 6 above.

However, Chen '580 are silent to disclosing wherein information carried in the handshake message includes comprises connection ID information and connection resource state information.

Nandagopalan '526, as the same or similar fields of endeavor, disclose wherein information carried in the handshake message includes comprises connection ID information and connection resource state information (page 11, claim 11, the establish connection request...the establish connection response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to apply wherein information carried in the handshake message includes comprises connection ID information and connection resource state



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information taught by Nandagopalan '526 into the communication system of Chen '580, since Nandagopalan '526 recited the motivation in the paragraph [0012] which improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN).

Regarding to claim 10, Chen '580 disclose the peer bearer network resource manager managing and controlling resources of [[a]] the connection nodes connected to the peer bearer network resource manager according to the received QoS information (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Regarding to claim 11, Chen '580 disclose the local bearer network resource manager sending a QoS resource control message that carries the QoS information to the peer bearer network resource manager (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Regarding to claim 12, Chen '580 disclose wherein the QoS resource control message comprises QoS resource request information, which comprises connection identification, stream information, QoS parameters or a stream descriptor (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

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Regarding to claim 13, Chen '580 disclose wherein the QoS resource control message comprises a QoS resource release request, which comprises a connection identifier or a reason code (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Regarding to claim 14, Chen '580 disclose wherein the QoS resource control message comprises a QoS resource modify request, which comprises a connection identifier and modified parameter information corresponding to the QoS connection (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Regarding to claim 15, Chen '580 disclose the peer bearer network resource manager sending a QoS resource control policy to the connection nodes, which is connected to the peer bearer network resource manager according to the QoS resource control message; the peer bearer network resource manager receiving a response of the QoS resource control policy from the connection nodes connected to the peer bearer network resource manager; the peer bearer network resource manager checking resource consistency of the QoS connection; and the peer bearer network resource manager returning a response of the connection status inquiry message to the local bearer network resource manager (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

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Regarding to claim 16, Chen '580 disclose wherein the information carried in the response of the connection status inquiry message includes any one or more of the following: QoS parameters, a path maximum transmission unit (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Regarding to claim 21, Chen '580 disclose a communication network comprising: a first bearer network resource manager (figure 1, SLA-based Policy control in Service Domain A) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 20); and a second bearer network resource manager in communication with the first bearer network resource manager (figure 1, SLA-based Policy control in Service Domain B) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 26) a communication network comprising: a first bearer network resource manager (figure 1, SLA-based Policy control in Service Domain A) (figure 2, RAN Bearer Access Policy Enforcement Interface Controller 20); transmit QoS information through the QoS connection to the second bearer network resource manager (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree); and wherein the first bearer network resource manager and the second bearer network resource manager are configured to control and manage resources according to the

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QoS information (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

However, Chen '580 are silent to disclosing wherein the first bearer network resource manager is configured to: send an establish connection request to the second bearer network resource manager for requesting to create a QoS connection between the first bearer network resource manager and the second bearer network resource manager; receive an establish connection response from the second bearer network resource manager so as to create the QoS connection.

Nandagopalan '526 disclose wherein the first bearer network resource manager is configured to: send an establish connection request to the second bearer network resource manager for requesting to create a QoS connection between the first bearer network resource manager and the second bearer network resource manager; receive an establish connection response from the second bearer network resource manager so as to create the QoS connection (page 11, claim 2, creating a connection response message... QoS in the response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use a local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource

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manager so as to create the QoS connection taught by Nandagopalan '526 into the communication network (figure 1) of Chen '580.

A local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection can be implemented into the communication network (figure 1) of Chen '580 to create QoS connection. The motivation for using a local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection being that improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN) (Nandagopalan '526, [0012]).

Regarding to claim 22, Chen '580 disclose the limitations of claim 21 above.

However, Chen '580 are silent to disclosing wherein the first bearer network resource manager is further configured to periodically send a handshake message to the second bearer network resource manager, and to determine a connection status according to a handshake response returned by the second bearer network resource manager

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Nandagopalan '526 disclose wherein the first bearer network resource manager is further configured to periodically send a handshake message to the second bearer network resource manager, and to determine a connection status according to a handshake response returned by the second bearer network resource manager (page 11, claim 11, the establish connection request...the establish connection response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to apply wherein information carried in the handshake message includes comprises connection ID information and connection resource state information taught by Nandagopalan '526 into the communication system of Chen '580, since Nandagopalan '526 recited the motivation in the paragraph [0012] which improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN).

Regarding to claim 23, Chen '580 disclose the limitations of claim 21 above.

However, Chen '580 are silent to disclosing wherein the second bearer network resource manager is configured to judge whether an identity of the first bearer network resource manager is valid, and if valid, send the establish connection response to the first bearer network resource manager.

Nandagopalan '526 disclose wherein the second bearer network resource manager is configured to judge whether an identity of the first bearer network resource manager is valid, and if valid, send the establish connection response to the first bearer network

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resource manager (page 11, claim 11, the establish connection request...the establish connection response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to apply wherein information carried in the handshake message includes comprises connection ID information and connection resource state information taught by Nandagopalan '526 into the communication system of Chen '580, since Nandagopalan '526 recited the motivation in the paragraph [0012] which improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN).

Regarding to claim 25, Chen '580 disclose a method implemented by a bearer network resource manager in a bearer network, the method comprising: transmitting QoS information through the QoS connection to the peer bearer network resource manager; and controlling and managing a resource in the bearer network according to the QoS information (figure 4, [0070] [0071] [0073] [0074] [0075] [0078] [0079] [0080] [0081] QoS request, QoS Accept, QoS Agree).

Chen '580 disclose all the subject matter of the invention above with the exception of sending an establish connection request for requesting to create a QoS connection to a peer bearer network resource manager; receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection.

Nandagopalan '526 disclose sending an establish connection request for requesting to create a QoS connection to a peer bearer network resource manager; receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection (page 11, claim 2, creating a connection response message... QoS in the response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use a local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection taught by Nandagopalan '526 into the communication network (figure 1) of Chen '580.

A local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection can be implemented into the communication network (figure 1) of Chen '580 to create QoS connection. The motivation for using a local bearer network resource manager sending an establish connection request to a peer bearer network resource manager for requesting to create a QoS connection between the local



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bearer network resource manager and the peer bearer network resource manager; the local bearer network resource manager receiving an establish connection response from the peer bearer network resource manager so as to create the QoS connection being that improved Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN) (Nandagopalan '526, [0012]).

Regarding to claim 26, Chen '580 disclose all limitations of claim 25 above.

However, Chen '580 are silent to disclosing periodically sending a handshake message to the peer bearer network resource manager; and determining a connection status according to a handshake response returned by the peer bearer network resource manager.

Nandagopalan '526 disclose periodically sending a handshake message to the peer bearer network resource manager; and determining a connection status according to a handshake response returned by the peer bearer network resource manager (page 11, claim 11, periodically sending the establish connection request...the establish connection response).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to apply wherein information carried in the handshake message includes comprises connection ID information and connection resource state information taught by Nandagopalan '526 into the communication system of Chen '580, since Nandagopalan '526 recited the motivation in the paragraph [0012] which improved

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Quality of Service (QoS) signaling for an Medium Access Control (MAC) layer in a wireless local area network (WLAN).

6. Claims 5, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined system (Chen '580' – Nandagopalan '526) in view of 'QBone Signaling Design Team'.

Regarding to claim 5, the combined system (Chen '580' – Nandagopalan '526) disclose the limitations of claim 3 above.

However, the combined system (Chen '580' – Nandagopalan '526) are silent to disclosing  
establish connection request comprises\_identification information and authentication information of the local bearer network resource manager initiating the establish connection request.

'QBone Signaling Design Team' discloses establish connection request comprises\_identification information and authentication information of the local bearer network resource manager initiating the establish connection request (page 16, bandwidth broker makes a number of decisions at this point, including the following: whether the requester is authorized for this service)

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the combined system (Chen '580' – Nandagopalan '526) with the teaching of 'QBone Signaling Design Team', since 'QBone Signaling Design Team'

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recited the motivation in page 2 which defining a model of the “bandwidth broker” resource managers to be deployed in the QBone.

Regarding to claim 20, the combined system (Chen ‘580’ – Nandagopalan ‘526) disclose the limitations of claim 3 above.

However, the combined system (Chen ‘580’ – Nandagopalan ‘526) are silent to disclosing wherein the respective bearer network resource manager includes a bandwidth broker, a call agent, or a connection manager

‘QBone Signaling Design Team’ discloses wherein the respective bearer network resource manager includes a bandwidth broker (page 16, bandwidth broker makes a number of decisions at this point, including the following: whether the requester is authorized for this service)

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the combined system (Chen ‘580’ – Nandagopalan ‘526) with the teaching of ‘QBone Signaling Design Team’, since ‘QBone Signaling Design Team’ recited the motivation in page 2 which defining a model of the “bandwidth broker” resource managers to be deployed in the QBone.

### ***Allowable Subject Matter***

7. Claims 7, 24, 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG T. HO whose telephone number is (571)272-3133. The examiner can normally be reached on 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDAN ORGAD can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Edan Orgad/

Supervisory Patent Examiner, Art Unit 2419